

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

MATERIAL INFORMATION STATEMENT

(Use several sheets if necessary)



Sheet 1 of 8

ATTY. DOCKET NO.
MEGAN 100SERIAL NO.
08/473,789

APPLICANT

Roy Curtiss, III and Steven A. Tinge

FILING DATE
June 7, 1995GROUP
1602 1645

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
VR	AA	4,190,495	02/26/80	Curtiss	435	172	
VR	AB	4,968,619	11/06/90	Curtiss	435	252.8	
VR	AC	5,190,931	03/02/93	Inouye	435	91	
	AD						
	AE						
	AF						
	AG						
	AH						
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	AJ						
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
VR	AL	0 381 706 B1	04/26/95	EP				
	AM							
	AN							
	AO							
	AP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

VR	AR	Barrett, <u>Textbook of Immunology</u> , Fourth Edition, (C. V. Mosby Co., St. Louis, MO, 1983)
	AS	Bienkowska-Szewczyk et al., "The R Gene Product Of Bacteriophage λ ", <u>Mol. Gen. Genet.</u> , 184:111-114 (1981)
	AT	Bochner et al., "Positive Selection For Loss Of Tetracycline Resistance", <u>J. Bacteriol.</u> , 143:926 (1980)

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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

VR	AR	Cárdenas and Clemente, "Oral Immunization Using Live Attenuated <i>Salmonella</i> spp. as Carriers of Foreign Antigens", <i>Clinical Micro. Rev.</i> , 5(3):328-342 (1992)
	AS	Cardineau and Curtiss, "Nucleotide Sequence Of The <i>asd</i> Gene Of <i>Streptococcus mutans</i> ", <i>J. Bio. Chem.</i> , 262:3344-3353 (1987)
	AT	Chatfield et al., "Construction Of A Genetically Defined <i>Salmonella typhi</i> Mutant For The Engineering Of A Candidate Oral Typhoid-Tetanus Vaccine", <i>Vaccine</i> , 10:53-60 (1992)
	AR	Chatfield et al., "The Development Of Oral Vaccines Based On Live Attenuated <i>Salmonella</i> Strains", <i>FEMS Immunol. Med. Microbiol.</i> , 7:1-7 (1993)
	AS	Christie, et al., "Synthetic Sites For Transcription Termination And A Functional comparison With Tryptophan Operon Termination Sites <i>In Vitro</i> ", <i>Proc. Natl. Acad. Sci. USA</i> , 78:4180-4184 (1981)
	AT	Clements, "Use Of Attenuated Mutants Of <i>Salmonella</i> As Carriers For Delivery Of Heterologous Antigens To The Secretory Immune System", <i>Pathol. Immunopathol. Res.</i> , 6:137-146 (1987)
	AR	Cornelis, "Yersiniae, Finely Tuned Pathogens", <i>Molecular Biology of Bacterial Infections</i> (Cambridge University Press, Cambridge, 1992)
	AS	Curtiss, "Engineering Organisms For Safety: What Is Necessary", <i>The Release Of Genetically-Engineered Micro-Organisms</i> , M. Sussman, et al. editor, Academic Press, 7-20 (1988)
	AT	Curtiss, "Genetic Manipulation Of Microorganisms: Potential Benefits And Biohazards", <i>Ann. Rev.</i> , 30:507-533 (1976)
	AR	Curtiss et al., "Research On Bacterial Conjugation With Mini-Cells And Minicell-Producing <i>E. Coli</i> Strains", <i>Microbial Drug Resistance</i> , 3:169-183 (1982)
	AS	Curtiss and Kelly, "Salmonell Typhimurium Deletion Mutants Lacking Adenylate Cyclase And Cyclic AMP Receptor Protein Are Avirulent And Immunogenic", <i>Infect. Imm.</i> , 55:3035-3043 (1987)
	AT	Curtiss et al., "Chromosomal Aberrations Associated With Mutations To Bacteriophage Resistance In <i>Escherichia Coli</i> ", <i>J. Bacteriol.</i> , 89:28-40 (1965)
	AR	Curtiss et al., "Avirulent <i>Salmonella</i> Expressing Virulence Antigens From Other Pathogens For Use As Orally Administered Vaccines", <i>Virulence Mechanisms Of Bacterial Pathogens</i> , (Roth, American Society for Microbiology, Washington, D.C., 1988) pages 311-328
	AS	Curtiss et al., "Recombinant <i>Salmonella</i> Vectors In Vaccine Development", <i>Dev. Biol. Stand.</i> , 82:23-33 (1994)
VR	AT	Curtiss et al., "Stable Recombinant Avirulent <i>Salmonella</i> Vaccine Strains", <i>Adv. Exp. Med. Biol.</i> , 251:33-47 (1989)

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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

VR	AR	Curtiss, "Attenuated <i>Salmonella</i> Strains as Live Vectors for The Expression of Foreign Antigens", <i>New Generation Vaccines</i> (Woodrow and Levine, eds., Marcel Dekker, New York, 1990) pages 161-188
	AS	Doggett and Curtiss, "Delivery Of Antigens By Recombinant Avirulent <i>Salmonella</i> Strains", <i>Adv. Exp. Med. Biol.</i> , 327:165-73 (1992)
	AT	Dorman et al., "Characterization Of Porin And ompR Mutants Of A Virulent Strain Of <i>Salmonella typhimurium</i> : ompR Mutants Are Attenuated In Vivo", <i>Infect. Immun.</i> , 57:2136-40 (1989)
	AR	Dougan et al., "Live Oral <i>Salmonella</i> Vaccines: Potential Use Of Attenuated Strains As Carriers Of Heterologous Antigens To The Immune System", <i>Parasite Immun.</i> , 9:151-160 (1987)
	AS	Dul et al., "Genetic Mapping Of A Mutant Defective In D, L-Alanine Racemase In <i>Bacillus Subtilis</i> 168", <i>J. Bacteriol.</i> , 115:1212 (1973)
	AT	Ferrari et al., "Isolation Of An Alanine Racemase Gene From <i>Bacillus Subtilis</i> And Its Use For Plasmid Maintenance In <i>B. Subtilis</i> ", <i>Bio/Technology</i> , 3:1003-1007 (1985)
	AR	Gait, ed., "Oligonucleotide Synthesis", A Practical Approach. (1984)
	AS	Galan and Curtiss, "Virulence AND Vaccine Potential Of phoP Mutants Of <i>Salmonella typhimurium</i> ", <i>Microb. Pathogen.</i> , 6:433-443 (1989)
	AT	Gentschev et al., " <i>Salmonella</i> Strain Secreting Active Listeriolysin Changes Its Intracellular Localization", <i>Infect. Immun.</i> , 63(10):4202-4205 (1995)
	AR	Gerdes et al., "Mechanism Of Postsegregational Killing By the <i>hok</i> Gene Product Of The <i>parB</i> System Of Plasmid R1 And Its Homology With The <i>relF</i> Gene Product Of The <i>E. coli</i> <i>relB</i> Operon", <i>EMBO J.</i> , 5:2023-2029 (1986)
	AS	Gerdes et al., "The <i>hok</i> Killer Gene Family In Gram-Negative Bacteria", <i>New Biol.</i> , 2:946-956 (1990)
	AT	Gerdes et al., "Unique Type Of Plasmid Maintenance Function: Postsegregational Killing Of Plasmid-Free Cells", <i>Proc. Natl. Acad. Sci. USA</i> , 83:3116-3120 (1986)
	AR	Germanier and Furer, "Immunity In Experimental Salmonellosis", <i>Infect. Immun.</i> , 4:663-73 (1971)
	AS	Germanier and Furer, "Isolation And Characterization Of GalE Mutant Tv 21a Of <i>Salmonella typhi</i> : A Candidate Strain For A Live, Oral Typhoid Vaccine", <i>J. Infect. Dis.</i> , 131:553-8 (1975)
VR	AT	Giladi et al., "Integration Host Factor Stimulates The Phage Lambda <i>pl</i> Promoter", <i>J. Mol. Biol.</i> , 231:109-121 (1990)

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VR	AR	Glover, ed., "DNA Cloning", A Practical Approach, Volumes I and II (1985)
	AS	Guzman et al., "Tight Regulation, Modulation, And High-Level Expression by vectors Containing The Arabinose PBAD Promoter", <i>J. Bacteriol.</i> , 177(14):4121-4130 (1995)
	AT	Hames and Higgins, eds., "Nucleic Acid Hybridization", A Practical Approach (1984)
	AR	Hecker et al., "Role Of relA Mutation In The Survival Of Amino Acid-Starved <i>Escherichia coli</i> ", <i>Arch Microbiol.</i> , 143:400-402 (1986)
	AS	Helander et al., "Preferential Synthesis Of Heptaacyl Lipopolysaccharide By The <i>ssc</i> Permeability Mutant Of <i>Salmonella typhimurium</i> ", <i>Eur. J. Biochem.</i> , 204:1101-1106 (1992)
	AT	Hess et al., "Superior Efficacy Of Secreted Outer Somatic Antigen Display In Recombinant <i>Salmonella</i> Vaccine Induced Protection Against Listeriosis", <i>Proc. Natl. Acad. Sci. USA</i> , 93:1458-1463 (1996)
	AR	Hirvas et al., "Identification And Sequence Analysis Of The Gene Mutated In The Conditionally Lethal Outer Membrane Permeability Mutant SS-C Of <i>Salmonella typhimurium</i> ", <i>EMBO J.</i> , 10(4):1017-1023 (1991)
	AS	Hoe et al., "Temperature Sensing In <i>Yersinia pestis</i> : Regulation Of <i>vonE</i> Transcription By <i>lcrF</i> ", <i>J. Bacteriol.</i> , 174:4275-4286 (1992)
	AT	Hone et al., "A <i>galE</i> via (Vi Antigen-Negative) Mutant Of <i>Salmonella typhi</i> Ty2 Retains Virulence In Humans", <i>Infect. Immun.</i> , 56:1326-1333 (1988)
	AR	Hromockyi et al., "Temperature Regulation Of Shigella Virulence: Identification Of The Repressor Gene <i>virB</i> , An Analogue Of <i>hne</i> , And Partial Complementation By Tyrosyl Transfer RNA (tRNA ^{Tyr})", <i>Mol. Micro.</i> , 6:2113-2124 (1991)
	AS	Jaguszyn-Krynicka et al., "Expression Of <i>Streptococcus mutans</i> Aspartate-Semialdehyde Dehydrogenase Gene Cloned Into Plasmid pBR322", <i>J. Gen. Microbiol.</i> , 128:1135-1145 (1982)
	AT	Johnson et al., "The Role Of A Stress-Response Protein In <i>Salmonella typhimurium</i> Virulence", <i>Mol. Microbiol.</i> , 5:401-407 (1991)
	AR	Jones et al., "Induction Of Proteins In Response To Low Temperature In <i>Escherichia coli</i> ", <i>J. Bacteriol.</i> , 169:2092-2095 (1987)
	AS	Kaniga et al., "A Wide-Host Suicide Vector For Improving Reverse Genetics In Gram-Negative Bacteria: Inactivation Of The <i>blaA</i> Gene Of <i>Yersinia enterocolitica</i> ", <i>Gene</i> , 109:137-141 (1991)
VR	AT	Kelly et al., "Characterization And Protective Properties Of Attenuated Mutants Of <i>Salmonella choleraesuis</i> ", <i>Infect. Immun.</i> , 60:4881-4890 (1992)

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VR	AR	Knudsen and Karlström, "Development of Efficient Suicide Mechanisms for Biological Containment of Bacteria", <u>Applied and Environmental Microbiology</u> , 57(1):85-92 (1991)
	AS	Kushner, "Construction Of Versatile Low-Copy-Number Vectors For Cloning, Sequencing And Gene Expression In <i>Escherichia coli</i> ", <u>Gene</u> , 100:195-199 (1990)
	AT	Lambert de Rouvroit et al., "Role Of The Transcriptional Activator, <i>VirE</i> , And Temperature In The Expression Of The <i>pYV</i> Plasmid Genes Of <i>Yersinia enterocolitica</i> ", <u>Molec. Microbiol.</u> , 6:395-409 (1992)
	AR	Lieb, "Studies Of Heat-Inducible Lambda Bacteriophage", <u>J. Mol. Biol.</u> , 16:149-163 (1966)
	AS	Lugtenberg et al., "Temperature-Sensitive Mutant Of <i>Escherichia coli</i> K-12 With An Impaired D-Alanine: D-Alanine Ligase", <u>J. Bacteriol.</u> , 113:96-104 (1973)
	AT	McGhee and Mestecky, <u>The Secretory Immune System</u> , Ann. N.Y. Acad. Sci., Volume 409 (1983)
	AR	Miller, <u>Experiments In Molecular Genetics</u> (Cold Spring Harbor Laboratory, 1972)
	AS	Miller et al., "A Two-Component Regulatory System (<i>phoP phoQ</i>) Controls <i>Salmonella typhimurium</i> Virulence", <u>Proc. Natl. Acad. Sci. USA</u> , 86:5054-8 (1989)
	AT	Miller and Mekalanos, "A Novel Suicide Vector And Its Use In Construction Of Insertion Mutations: Osmoregulation Of Outer Membrane Proteins And Virulence Determinants In <i>Vibrio cholerae</i> Requires <i>toxR</i> ", <u>J. Bacteriol.</u> , 170:2575-2583 (1988)
	AR	Miller, <u>A Short Course In Bacterial Genetics</u> (Cold Spring Harbor Laboratory, 1992)
	AS	Miyakawa et al., "Cell Wall Peptidoglycan Mutants Of <i>Escherichia coli</i> K-12: Existence Of Two Clusters Of Genes, <i>mra</i> And <i>mrb</i> , For Cell Wall Peptidoglycan Biosynthesis", <u>J. Bacteriol.</u> , 112:950 (1972)
	AT	Molin et al., "Suicidal Genetic Elements And Their Use In Biological Containment Of Bacteria", <u>Annual Review of Microbiology</u> , 47:139-166 (1993)
	AR	Molin and Kjelleberg, "Release of Engineered Microorganisms: Biological Containment and Improved Predictability for Risk Assessment", <u>AMBIO</u> , 22(4):242-245 (1993)
	AS	Molin et al., "Conditional suicide system for containment of bacteria and plasmids", <u>Bio/Technology</u> , 5:1315-1318 (1987)
VR	AT	Munthali et al., "Use Of Colicin E3 For Biological Containment Of Microorganisms", <u>App. Environ. Microbiol.</u> , 62(5):1805-1807 (1996)

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VR	AR	Neidhardt et al., "The Genetics And Regulation Of Heat-Shock Proteins", <i>Annu. Rev. Genet.</i> , 18:295-329 (1984)
	AS	Nyström, "Role Of Guanosine Tetraphosphate In Gene Expression And The Survival Of Glucose Or Seryl-tRNA Starved Cells Of <i>Escherichia coli</i> K12", <i>Mol. Gen. Genet.</i> , 245:355-362 (1994)
	AT	O'Brien, ed., <i>Genetic Maps</i> (Cold Spring Harbor Laboratory, 1987)
	AR	O'Connor and Timmis, "Highly Repressible Expression System for Cloning Genes That Specify Potentially Toxic Proteins", <i>J. Bacteriol.</i> , 169:4457-4462 (1987)
	AS	Orga et al., <i>Handbook of Mucosal Immunology</i> (Academic Press, San Diego, CA, 1994)
	AT	Perbal, <i>A Practical Guide To Molecular Cloning</i> , A Wiley-Interscience Publication (1984)
	AR	Poteste et al., "Operator Sequences Of Bacteriophages P22 And 21", <i>J. Mol. Biol.</i> , 137:81-91 (1980)
	AS	Poulsen et al., "The <i>gef</i> Gene From <i>Escherichia coli</i> Is Regulated At The Level Of Translation", <i>Mol. Microbiol.</i> , 5:1639-1648 (1991)
	AT	Qoronfleh et al., "Identification And Characterization Of Novel Low-Temperature-Inducible Promoters Of <i>Escherichia coli</i> ", <i>J. Bacteriol.</i> , 174:7902-7909 (1992)
	AR	Ramos et al., "Suicide Microbes on the Loose", <i>Bio/Technology</i> , 13:35-37 (1995)
	AS	Reader and Siminovitch, "Lysis Defective Mutants Of Bacteriophage Lambda: On The Role Of The S Function In Lysis", <i>Virology</i> , 43:623-637 (1971)
	AT	Reddy, et al., "Hyperexpression And Purification Of <i>Escherichia Coli</i> Adenylate Cyclase Using A Vector Designed For Expression Of Lethal Gene Products", <i>Nucleic Acids Res.</i> , 17(24):10473-10489 (1989)
	AR	Remaut, et al., "Plasmid Vectors For High-Efficiency Expression Controlled By The ρ_L Promoter Of Coliphage Lambda", <i>Gene</i> , 15:81-93 (1981)
	AS	Remaut, et al., "Improved Plasmid Vectors With A Thermoinducible Expression And Temperature-Regulated Runaway Replication", <i>Gene</i> , 22:103-113 (1983)
VR	AT	Rennell and Poteste, "Phage P22 Lysis Genes: Nucleotide Sequences and Functional Relationships with T4 and λ Genes", <i>Virology</i> , 143:280-289 (1985)

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VR	AR	Sambrook et al., Molecular Cloning: A Laboratory Manual (Cold Spring Harbor Laboratory, 1989)
	AS	Sanger et al., "Nucleotide Sequence Of Bacteriophage λ DNA". J. Mol. Biol. 162:729-773 (1982)
	AT	Sauer et al., "Primary Structure Of The Phage P22 Repressor And Its Gene c2". Biochem. 20:3591-3598 (1981)
	AR	Schödel, "Oral Vaccination Using Recombinant Bacteria". Semin. Immunol. 2:341-349 (1990)
	AS	Schödel, "Recombinant Avirulent Salmonellae as Oral Vaccine Carriers". Infection. 20(1):1-8 (1992)
	AT	Schweder et al., "Escherichia coli K12 relA Strains As Safe Hosts For Expression Of Recombinant DNA". Appl. Microbiol. Biotechnol. 42:718-723 (1995)
	AR	Siewart et al., "Effect Of A purA Mutation On Efficacy Of Salmonella Live-Vaccine Vectors". Infection and Immunity. 57(6):1858-1861 (1989)
	AS	Sites et al., Basic and Clinical Immunology (Lange Medical Books, Los Altos, CA, 1994)
	AT	Sizemore et al., "Attenuated Shigella As A DNA Delivery Vehicle For DNA-Mediated Immunization". Science. 270:299-302 (1995)
	AR	Spector and Cubitt, "Starvation-Inducible loci Of Salmonella typhimurium: Regulation And Roles In Starvation-Survival". Mol. Micro. 6:1467-1476 (1992)
	AS	Studier et al., "Gene Expression Technology". Methods Enzymol. 185:60-89 (1990)
	AT	Tacket et al., "Comparison Of The Safety And Immunogenicity Of Acva Acvp Salmonella typhi Strains In Adult Volunteers". Infect. Immun. 60:536-541 (1992)
	AR	Tenabe et al., "Identification Of The Promoter Region Of The Escherichia coli Major Cold Shock Gene, cspA". J. Bacteriol. 174:3867-3873 (1992)
	AS	Tao and Blumenthal, "Sequence And Characterization Of pvuII R. The PvuII Endonuclease Gene, And Of puvII C. Its Regulatory Gene". J. Bacteriol. 174(10):3395-3398 (1992)
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VR	AR	Umbarger, "Amino Acid Biosynthesis And Its Regulation", Ann. Rev. Biochem., 47:533 (1978)
	AS	Vasina and Banayx, "Recombinant Protein Expression At Low Temperatures Under The Transcriptional Control Of The Major <i>Escherichia coli</i> Cold Shock Promoter <i>cspA</i> ", Appl. Environ. Micro. 62(4):1444-1447 (1996)
	AT	Vuorio and Vaara, "Mutants Carrying Conditionally Lethal Mutations In Outer Membrane Genes <i>omsA</i> And <i>firA</i> (<i>esc</i>) Are Phenotypically Similar, And <i>omsA</i> Is Allelic To <i>firA</i> ", J. Bacteriol., 174(22):7090-7097 (1992)
	AR	Wisman, "The Characterization Of An Alanine Racemase Mutant Of <i>Escherichia coli</i> ", Genet. Res. Camb., 20:269-277 (1972)
	AS	Wisman, "A Genetic Map Of Several Mutations Affecting The Mucopeptide Layer Of <i>Escherichia coli</i> ", Genet. Res. Camb., 20:65-74 (1972)
	AT	Yarrington et al., "Dual-Origin Plasmid Vectors Whose Origin Of Replication Is Controlled By The Coliphage Lambda Promoters PL", Gene, 28:293-300 (1984)
VR	AR	Young, "Bacteriophage Lysis: Mechanism And Regulation", Microbiol. Rev., 56:430-481 (1992)
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